



Portable Excalibur Fire Control System

PEFCS

NSN:1230-01-537-6983

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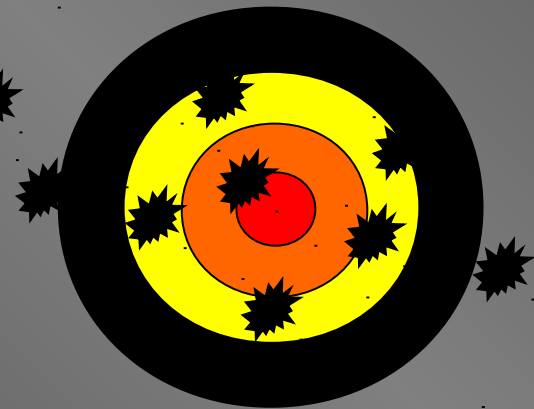


Historical Role of Artillery and Mortar Munitions

Saturation

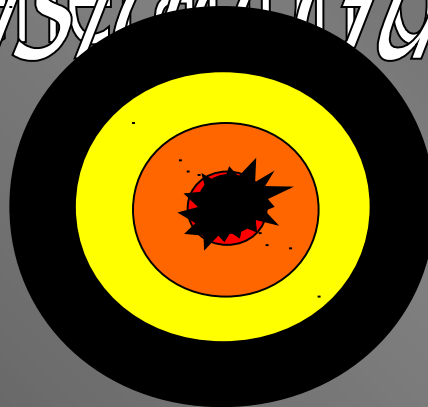
Suppression

A NEW ROLE HAS EVOLVED





The New Precision Guided Projectiles





The Chain of Events
On 24 March '05 2005 the Army Requirements and Resourcing Board validated a Coalition Forces Acceleration of Excalibur Block 1a-1 New State accepted as the materiel solution



On 14 April '05 Mr. Bolton granted favorable MS-C decision to Excalibur Block 1a-1

But integrated platform fire control systems for this projectile were not yet available...





May '05 - PM Excalibur

Finances ARDEC's

The system would be required to

- Material release in time to meet the Excalibur's UMR schedule
- Be compatible with both Paladin PDFCS and AFCS weapon platforms
- Be transportable

To a Portable Excalibur Fire Control System

Interoperate with AFAPDS using JVMF Software Block II message format

PDFCS





Excaliburs are being fired using PEFCs



PEFCS

DAGR GPS



Ruggedized
Personal
(R-PDA)
Data
Host
Computer
Assistants



What is a PEFCS?



EPIAFS
Platform Integration Kit
(PIK)
Interface



EPIAFS
Setter
Interface



Power
Supply



(Radio Configuration)
Ins No 1230-01-537-6983



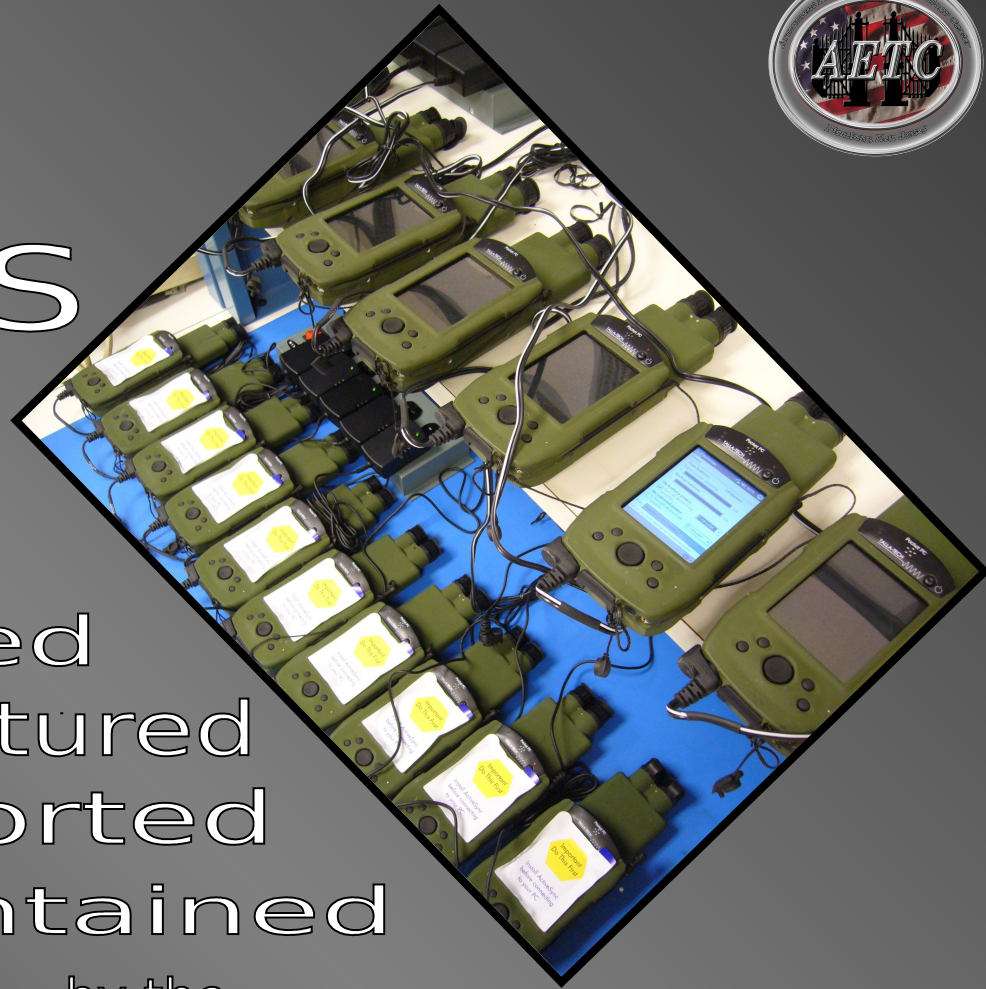


The PEFCs

- Conceived
- Designed
- Developed
- Manufactured
- Supported
- Maintained

by the

Fire Control Systems
and
Technology Directorate





The first to field the JVMF software block II message format along with the AFATDS

Integrated training application

Displays mission data for non-inductive conventional setting applications

Two operational modes

CTSP certified interoperable with AFATDS

Adaptable to any weapon platform



Capable of inductively setting all EPIAFS compatible devices

- Passive mode: Passively processes FDC sent digital mission solutions
- Manual mode: Manual entry of mission solutions
- Foreign or domestic, mortar and artillery





PEFCS



The First

- Lightweight
- Fully Portable
- Self contained
- Universally Adaptable
- Multiple Platform

Inductive Fire Control System





Universal Lightweight Transportable Reconfigurable Application Fire Control System

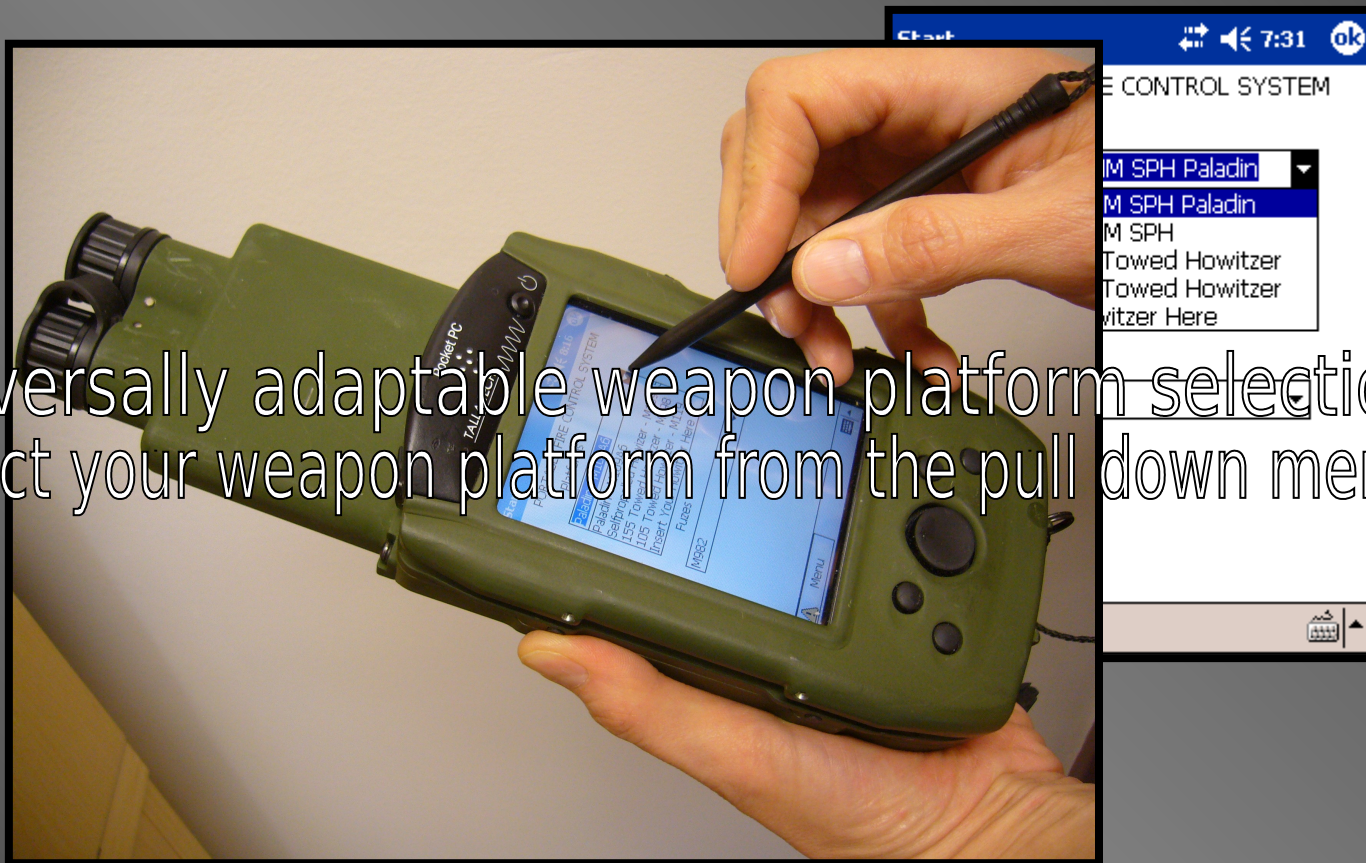




ULTRA

Fire Control System

Universally adaptable weapon platform selection
Select your weapon platform from the pull down menu





ULTRA

Fire Control System

Lightweight



Transportable





ULTRA

Fire Control System

Capable of inductively setting any EPLAFS compatible
Projectile, Fuze or Device
Select your projectile or fuze from the drop down menu





Three operational modes

Passively - **Passive mode:** C sent digital mission solutions

Manual - **Manual mode:** C sent digital mission solutions

- **Autonomous mode:** mission solutions
with the addition of the NATO Ballistic Kernel





An

This technology will proliferate
in various systems, space, sea, air, and land artillery
platforms, both foreign and domestic
ULTRA
UNIVERSAL LIGHTWEIGHT TRANSPORTABLE RECONFIGURABLE APPLICATION
Fire Control System

Economics and common sense will require
commonality, versatility and adaptability
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to support these new projectiles
across a spectrum of firing platforms

